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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,015	12/29/2004	Hideki Kawamura	36856.1313	2628
54066 7	590 11/16/2006		EXAMINER	
MURATA M	ANUFACTURING CO	TAKAOKA, DEAN O		
C/O KEATING & BENNETT, LLP 8180 GREENSBORO DRIVE			ART UNIT	PAPER NUMBER
SUITE 850	SUITE 850			
MCLEAN, VA 22102			DATE MAILED: 11/16/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commence	10/520,015	KAWAMURA, HIDEKI				
Office Action Summary	Examiner	Art Unit				
	Dean O. Takaoka	2817				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 16(a). In no event, however, may a reply be tivil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONI	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>01 Se</u>	entember 2006					
	action is non-final.					
3) Since this application is in condition for allowar		osecution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	,					
4)⊠ Claim(s) <u>15-28</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>15 and 28</u> is/are rejected.						
7)⊠ Claim(s) <u>16-27</u> is/are objected to. 8)□ Claim(s) are subject to restriction and/or	coloction requirement					
o) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) □ acce	epted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is ob-	pjected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119		•				
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior						
application from the International Bureau		3				
* See the attached detailed Office action for a list of	• • • • • • • • • • • • • • • • • • • •	ed.				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>4/21/06</u> .	5) Notice of Informal I	Patent Application				
· epoi itologimuii dule <u>4/2//00</u> .	J/ □ Other					

DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "transmitting filter use second harmonic waves" and the "receiving filter use fundamental waves" (claim 21) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

The transmit and receiving filter are shown but the filters using the respective second harmonic and fundamental waves are not shown.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

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Claim 15.

the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 15 and 28 are rejected under 35 U.S.C. 102(e) as being anticipated by Ruby et al. (US Patent No. 6,472,954).

Ruby et al shows a branching filter and communication device (best shown in Figs. 1, 3, 4 et al.) comprising a transmitting filter (68); a receiving filter (73); where piezoelectric thin film resonators include at least one piezoelectric thin film sandwiched between at least one pair of opposed electrodes are arranged in a ladder configuration on an opening of a substrate (Fig. 5); where the piezoelectric thin film resonators defining the transmitting filter and receiving filter have a different structure from each other (i.e. different electrodes – Fig. 5).

Response to Arguments

Applicant's arguments filed September 1, 2006 with respect to Drawing objections have been fully considered but they are not persuasive.

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Objections to the drawings are drawn to the limitations of claim 21. The Applicant respectfully traverses the Examiners Drawing objections and submits "The second harmonic and fundamental waves are clearly not structural elements of the branching filter which could or should not be shown in the drawings, but rather are merely functions of the branching filter which cannot be shown in the drawings." (see page 5 of 6).

It is the position of the Examiner that while a harmonic wave or more specifically a fundamental or second harmonic waves are clearly not a "structural element", it is a frequency response characteristic which is well-known in the art and where there clearly exists a multitude of showings not only for a fundamental frequency response (i.e. Fo) but also other harmonic responses such as a well-known second harmonic response. For the benefit of the Applicant, and as by example but not to be construed as prior art with respect to the current Application, the Examiner cites the following patents; US 6,982,612 – Fig. 5; and US 6,822,536 – Fig. 3; all by the same Assignee, where harmonic responses are clearly shown. Furthermore, the limitations of the claim state where the transmitting filter uses second harmonic waves where the receive filter uses fundamental waves, thus where it is the opinion of the Examiner that limitations contained in the claim identifies a significant aspect of the claimed device, thus Applicant's arguments are not persuasive and the objection is maintained by the Examiner.

Allowable Subject Matter

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Claim 16 – 27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dean O. Takaoka whose telephone number is (571) 272-1772. The examiner can normally be reached on 8:30a - 5:00p Mon - Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

dot

November 9, 2006